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| **Scientific Explanation for “Which Car is Safer” Force & Motion Inv. 73** | | | | |
|  | 4 | 3 | 2 | 1 |
| **Claim** | | | | |
| CClai | N/A | Claim stands alone as a complete statement, responding directly to the question. | Claim responds to the question, but is incomplete. | Claim does not respond to the question. |
| **Evidence** | | | | |
| **Relevency** à Is this the most appropiate and relevent evidence for this claim? | In addition to all primary relevent car features, at least one additional relevent car feature is included. All quantitative data for each feature is included. | All primary car features are relevent to the claim. All quantitative date for each relevent feature is included. | Not all car features are relevent to the claim. Most quantitative data for each feature is included. | No car features are relevent to the claim |
|  |  |  |  |  |
| **Reasoning** | | | | |
| **Stands-Out** à Is the reasoning obvious, or hard-to-spot? | Reasoning is clearly stated and is unique to the other components of the explanation | Reasoning statements stand out among other statements. | Reasoning is present, but is not obvious. | Repeats the Claim, Question, or Evidence. |
| **Link** à Why this data should count as evidence. | Tells how the data related to the vehicle features connects to the claim about which vehicle is safer | Says how the data related to the vehicle features are the appropriate data to link to the claim. | Attempts, but is unclear about how the feature data cited is relevant to the claim. | Does not sufficiently link the feature data to the claim. |
| **Science Concept** à Use scientific concept to connect reasoning to claim | Demonstrates a greater depth of understanding of scientific concepts about force and motion and how they support the claim about vehicular safety. | Includes appropriate and sufficient science concepts related to force and motion to explain why the evidence supports the claim. | Lightly addresses the science concepts related to force and motion, may fail to connect to claim or evidence, and/or may have some incomplete, or incorrect science concepts. | Does not include appropriate science concepts to support the claim. |